

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 19, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-103305, issued to CNX GAS COMPANY LLC , is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: PHL3AHS

Farm Name: PHILIPPI DEVELOPMENT, INC

API Well Number: 47-103305

Permit Type: Horizontal 6A Well

Date Issued: 11/19/2013

Promoting a healthy environment.

103305

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 6. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 7. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

	WEBE WORKER	SKUMI THE LEGIX	001	06	545
1) Well Operator:	CNX Gas Company LLC	494458046	Barbour	Pleasant	Philippi
.,		Operator ID	County	District	Quadrangle
2) Operator's Well 1	Number: PHL3AHS	V	Vell Pad Nan	ne: PHL3HS	
3 Elevation, curren	t ground: 1444' El	evation, proposed	post-construc	ction: 1	1445'
4) Well Type: (a) C	Gas <u> </u>	Underground	d Storage		<u> </u>
(b) In the state of the state o		Deep			·
_	Formation(s), Depth(s), Anticipateth - 7545', Thickness - 90', Pressure - 3000#	ted Thicknesses an	d Associated	Pressure(s):	
7) Proposed Total V	/ertical Depth: 7735				
8) Formation at Total	al Vertical Depth: Huntersville Ch	ert			
9) Proposed Total N	Measured Depth: 17,520'				
10) Approximate Fr	resh Water Strata Depths: 3	28', 544', 665'			
11) Method to Dete	rmine Fresh Water Depth:	Reference Offset Wells	•		
12) Approximate Sa	altwater Depths: None Reported				
13) Approximate Co	oal Seam Depths: 544', 665'				
14) Approximate De	epth to Possible Void (coal mine,	karst, other):	None Antic	cipated	
	well location contain coal seams of ctive mine? If so, indicate name a		Yes, S	Sentinel Mine	e 544' & 665'
16) Describe propos	sed well work: Drill and stimulate new h	orizontal Marcellus well. Well to b	e drilled to a TMD of 17	520'. Well to be drilled to	a TVD of 7735' for logging
	Huntersville Chert. Well will be plugged back to an approxim				
	Class A type cement. If an unexpected void is encountered, pla		n of 30' past void and ce	ment to surface with appro	oved Class A type cement.
•	ring/stimulating methods in detail		nt upon engineering	design a Slickwater In	acturing technique will
be utilized on each stage u	using sand, water, and chemicals.			MAY 2 1 20	
				MAY 2 1 20	13
18) Total area to be	disturbed, including roads, stock	pile area, pits, etc,		25.6 Acres Office of Oil and G	ias
19) Area to be distu	irbed for well pad only, less acces	s road (acres):	10.13 Acre	of Environmental	Protection
					Page 1 of 3

WW - 6B (3/13)

Tubing

Liners

2 3/8"

N

J-55

20)

CASING AND TUBING PROGRAM 5-3-13

ade W----

8135'

TYPE Grade Weight per **FOOTAGE: INTERVALS: CEMENT:** Size New <u>ft.</u> Left in Well <u>or</u> For Drilling Fill -up (Cu. Ft.) Used 20" N J-55 94# 80' 80' Conductor **Grout to Surface** J-55 54.5# 750' Fresh Water 13 3/8" N 750' CTS w/ Approved Class A Type Cement Coal Intermediate 9 5/8" N J-55 36# 2300' 2300' CTS w/ Approved Class A Type Cement 17520' 5 1/2" P-110 20# 17520' Production Ν 2400 cu. ft. W/ 50/50 POZ Load & Class A Tail

4.7#

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" & 8 1/2"	0.361	12640	Class A Type	1.26
Tubing	2 3/8"	5 1/2" csg	0.190	7700		
Liners						

PACKERS

8135'

Kind:	None	MAY 2 1 2012
Sizes:	None	2 1 2013
Depths Set:	None	Office of Oil and Gas WW Dept. of Environmental Protection

21) Describe centralizer placement for each casing string.	nductor - No centralizers used. Fresh Water &
Coal - Bow spring centralizers on first joint then every fourth joint to 100	feet from surface. Intermediate - Bow spring
centralizers one on the first two joints and every fourth joint until inside \$	Surface casing. Production - Rigid bow spring
centralizer on first joint then every 2 joints (free floating) through the late	eral and the curve.
(Note: cementing the 5 1/2" casing completely in open hole lateral and	curve.)
22) Describe all cement additives associated with each cement type.	Conductor - 2% CaCl2.
Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production: 2.6	% Cement extender, 0.7% Fluid Loss Addative
0.5% High Temperature Retarder, 0.2% Friction Reducer.	
22) Draw and hambala conditioning according	
23) Proposed borehole conditioning procedures. Conductor - The ho	le is augered/drilled w/ air and casing ran in air. Apart From
insuring the hole is clean via air circulation at TD there are no other conditioning	
· · · · · · · · · · · · · · · · · · ·	procedures. Fresh Water/Coal - The hole is drilled
insuring the hole is clean via air circulation at TD there are no other conditioning	procedures. Fresh Water/Coal - The hole is drilled cleared with fresh water and gel prior to cementing.
insuring the hole is clean via air circulation at TD there are no other conditioning w/ air and casing is ran in air. Once casing is on bottom the casing shoe will be	procedures. Fresh Water/Coal - The hole is drilled cleared with fresh water and gel prior to cementing. In bottom the casing shoe will be cleared with fresh
insuring the hole is clean via air circulation at TD there are no other conditioning w/ air and casing is ran in air. Once casing is on bottom the casing shoe will be Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is conditionally in the casing in the casing is conditionally in the casing is conditionally in the casing in the case in t	procedures. Fresh Water/Coal - The hole is drilled cleared with fresh water and gel prior to cementing. In bottom the casing shoe will be cleared with fresh as wet/damp during the drilling of all air holes with the

*Note: Attach additional sheets as needed.

Received

MAY 2 1 2013

Office of Oil and Gas WM Dept. of Environmental Protection

Cement Additives

- Conductor 2% CaCl2
- Freshwater/Coal 2% CaCl2
- Intermediate 2% CaCl2
- Production
 - o 2.6% Cement extender
 - o 0.7% Fluid Loss Additive
 - o 0.5% High Temperature Retarder
 - o 0.2% Friction Reducer

Received
MAY 2 1 2013

Office of Oil and Gas WV Dept. of Environmental Protection

	Page of _	
API Number 47 -		
Operator's	s Well No. PHL3AHS	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company L	LC	OP Code _49445804	46
Watershed (HUC 10) Foxgrape Run	1	Quadrangle Philippi	
Elevation 1,444.50'	County_Barbour	District_ Pleasant	<u> </u>
Do you anticipate using more than 5	,000 bbls of water to complete th	e proposed well work? Yes	No_x
Will a pit be used for drill cuttings?	Yes No _x		
If so, please describe anticip	pated pit waste: N/A		
Will a synthetic liner be use	ed in the pit? Yes No	x If so, what ml.? N/A	
Proposed Disposal Method	For Treated Pit Wastes:		
Reuse (at	und Injection(UIC Permit Num API Number	ber	
	Disposal (Supply form WW-9 for explain Recycle on other wells on the	•	
5 (2	·		
Will closed loop system be used? Y	es		
Drilling medium anticipated for this	well? Air, freshwater, oil based,	etc. Air and oil based mud	
-If oil based, what type? Sy	nthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medi	um? Bactericide, Polymers and Weig	hting Agents	
Drill cuttings disposal method? Leave	ve in pit, landfill, removed offsite	e, etc. Landfill	
-If left in pit and plan to sol	idify what medium will be used?	(cement, lime, sawdust) N/A	
-Landfill or offsite name/pe	rmit number? MeadowFill, Northwes	stern Landfill, Max Environmental Yukon	Landfill and Bulger Landfill
on August 1, 2005, by the Office of oprovisions of the permit are enforce law or regulation can lead to enforce	Oil and Gas of the West Virginia able by law. Violations of any timent action. law that I have personally examples thereto and that, based on the that the information is true, as	term or condition of the general p nined and am familiar with the in my inquiry of those individuals ccurate, and complete. I am aw	otection. I understand that the permit and/or other applicable information submitted on this immediately responsible for
Company Official Signature	fudició	Dhall	
Company Official (Typed Name) Je			
Company Official Title Designed Ag	gent - General Manager WV Gas O	perations	Brown, and a second
			Received
Subscribed and sworn before me this	ay of May		MAY 2 1 20 THICK SEAL
My commission expires 09/15/2021			NOTARY PUBLIC STATE OF WEST VIRGINIA and G. CAROLINDA FLANAGAN Nental Prote. PD Box 603 Lumberport WV 26386 My Commission Reprise Beptember 15, 2021

Form WW-9

Operator's Well No. PHL3AHS

Proposed Revegetation Treatme	ent: Acres Disturbed	₁ 25.6	Prevegetation p	н 6.5
Limeaccording to pH te	st Tons/acre or to co	orrect to pH	7.0	
Fertilizer (10-20-20 or			cre (500 lbs minimum)	
Mulch hay or str	equivalent)		•	
Mulch 11ay 01 3ti	aw @ two	Tons/ac	re	
		Seed	Mixtures	
Area				rea II
Seed Type	lbs/acre		Seed Type	lbs/acre
Orchard Grass	25		Orchard Grass	25
Birdsfoot Trefoil	15		Birdsfoot Trefoil	15
Landino Clover	10		Landino Clover	10
				· .
Drawing(s) of road, location,pit Photocopied section of involved			cation.	
			cation.	
Photocopied section of involved				
Photocopied section of involved				
Photocopied section of involved				
Photocopied section of involved				
Photocopied section of involved				
Photocopied section of involved				
Photocopied section of involved				
Plan Approved by:				
Photocopied section of involved Plan Approved by: Comments: Title: INS parton	d 7.5' topographic sh			
Photocopied section of involved Plan Approved by: Comments: Title: INS parton			Date: 5-3-13	Peceive MAY 2 1 2013 Office of Oil and Gas the Environment Pro

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01308

API/ID Number:

047-001-03305

Operator:

Consol Energy - WV

PHL3AHS

Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- •Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- •Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- •Minimum flows required by the Army Corps of Engineers; and
- · Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED JUN 3 0 2013

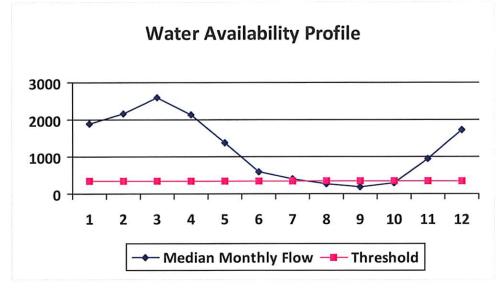
Source Summary

WMP-01308 API Number: Operator: Consol Energy - WV 047-001-03305 PHL3AHS Stream/River Tygart Valley River Barbour **Consol Energy** Source Owner: Start Date End Date Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude: 4/1/2014 4/1/2015 11,000,000 39.190421 -80.017423 Regulated Stream? Ref. Gauge ID: 3054500 TYGART VALLEY RIVER AT PHILIPPI, WV Max. Pump rate (gpm): Min. Gauge Reading (cfs): 355.01 Min. Passby (cfs) 344.41 1,470 **DEP Comments:**

Source Detail



Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	1,901.06	361.51	1,542.64
2	2,155.51	361.51	1,797.09
3	2,600.93	361.51	2,242.51
4	2,132.23	361.51	1,773.82
5	1,375.48	361.51	1,017.07
6	586.10	361.51	227.69
7	402.01	361.51	43.59
8	280.57	361.51	-77.84
9	177.42	361.51	-181.00
10	286.75	361.51	-71.66
11	950.89	361.51	592.48
12	1,738.34	361.51	1,379.92



Water Availability Assessment	of Location
Base Threshold (cfs):	347.50
Upstream Demand (cfs):	10.73
Downstream Demand (cfs):	0.00
Pump rate (cfs):	3.28
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	355.01
Passby at Location (cfs):	347.50

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01308

API/ID Number

047-001-03305

Operator:

Consol Energy - WV

PHL3AHS

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Lake/Reservior

Little Hackers Creek Impoundment (WV83489) Source ID: 20116 Source Name Source start date: 4/1/2014 4/1/2015 Source end date: -80.0653 Barbour Source Lat: 39.1889 Source Long: County Max. Daily Purchase (gal) Total Volume from Source (gal): 11,000,000 Little Hackers Creek Impoundment (WV83489) used by Wolf Run Mining Company -**DEP Comments:** Sentinel Mine

Consol Energy - WV WMP-01308 API/ID Number 047-001-03305 Operator:

PHL3AHS

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID: 20118 Source Name

noted.

Source Lat:

DEP Comments:

Max. Daily Purchase (gal)

Source ID:	Source ID: 20117 Source Name		Warder North	Warder North Impoundment				4/1/2014	
						Source en	d date:	4/1/2015	
		Source Lat:	39.192505	Source Long:	-80.025198	County	В	arbour	
		Max. Daily Pu	rchase (gal)		Total Volu	me from Source	(gal):	11,000,000	
	DEP Co	omments:							

-80.025198

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

39.19097

4/1/2014 Source start date: 4/1/2015 Source end date: Barbour County 11,000,000 Total Volume from Source (gal):

Reference: WMP-189

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise

Warder South Impoundment

Source Long:

Reference: WMP-190

WMP-01308 API/ID Number 047-001-03305 Operator: Consol Energy - WV
PHL3AHS

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID:	Source ID: 20119 Source Name			Alton 1 Freshwater Impoundment			date:	4/1/2014
						Source end o	late:	4/1/2015
		Source Lat:	38.794961	Source Long:	-80.184542	County	U	Ipshur
		Max. Daily Pu	rchase (gal)		Total Volu	me from Source (ga	1):	11,000,000
	DEP Co	mments:						
					nanagement plan plan unless othe		Referen	nce: WMP-19
nresholds est			overn this wate		plan unless othe			4/1/2014
nresholds est oted.	ablished	l in that plan go	overn this wate	er management	plan unless othe	rwise	date:	
nresholds est oted.	ablished	l in that plan go	overn this wate	er management	plan unless othe	Source start o	date:	4/1/2014
hresholds est oted.	ablished	Source Name	Alton 2 Freshw 38.806146	er management vater Impoundme	plan unless othe	Source start of Source end of	date: date: U	4/1/2014 4/1/2015

The intake identified above has been defined in a previous water management plan. The

thresholds established in that plan govern this water management plan unless otherwise

noted.

Reference: WMP-195

WMP-01308 API/ID Number 047-001-03305 Operator: Consol Energy - WV

PHL3AHS

Important:

Recycled Frac Water

DEP Comments:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID: 20121 Source Name			ALT 1 Flowback	k Pit		Source start date	4/1/2014
						Source end date	e: 4/1/2015
		Source Lat:	38.793967	Source Long:	80.183196	County	Barbour
		Max. Daily Pu	rchase (gal)		Total Volu	me from Source (gal):	11,000,000

Source ID:	20122	Source Name	PHL 1 Flowback Pit			Source start date:		4/1/2014	
						Source en	d date:	4/1/2015	
		Source Lat:	39.192372	Source Long:	-80.018833	County	Ва	Barbour	
Max. Daily Purchase (gal)				Total Volume from Source (gal):			11,000,000		
	DEP Co	omments:							

WMP-01308 API/ID Number: 047-001-03305 Operator: Consol Energy - WV

PHL3AHS

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID: 20123 Source Name PHL1; PHL13; PHL29; PHL4; ALT2; ALT7 Source start date: 4/1/2014

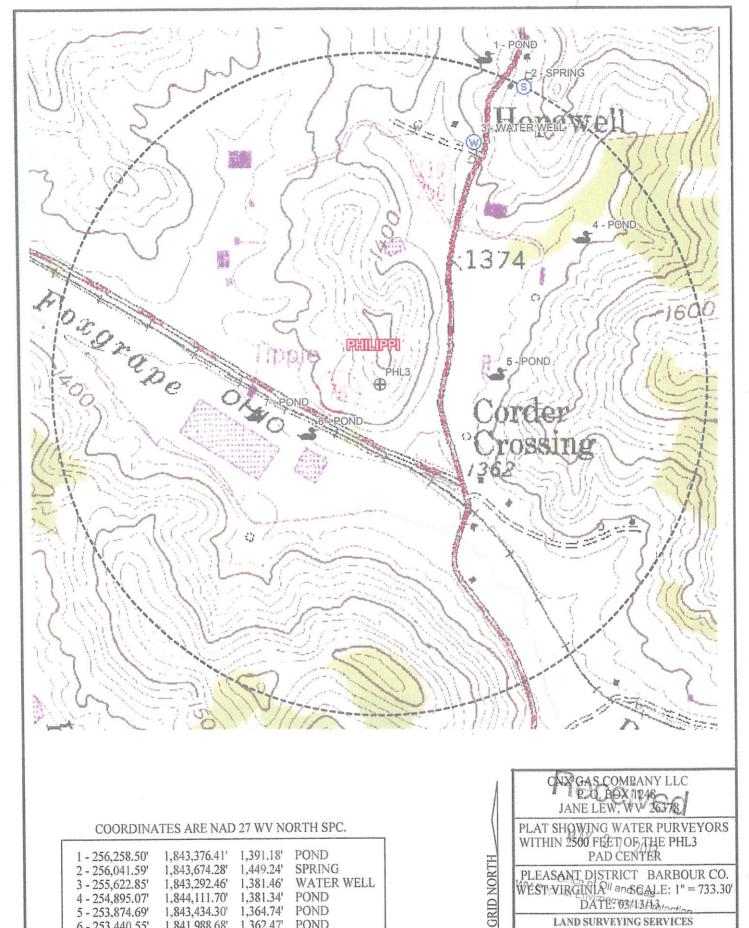
Source end date: 4/1/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal)

Total Volume from Source (gal): 11,000,000

DEP Comments:



1,841,988.68' 1,362.47'

1,841,583.52' 1,369.66' POND

6 - 253,440.55'

7- 253,588.44'

POND

LAND SURVEYING SERVICES

BRIDGEPORT, WV 26330 PHONE: 304-842-2018 OR 5762

21 CEDAR LANE

